

GRUNDIG

CUC 741

CUC 732

CUC 731

VERS. A: GERÄTE MIT SYMMETR. GEHÄUSE
SETS WITH SYMM. CABINET
APPAR. CON MOBILE SIMMETRICO

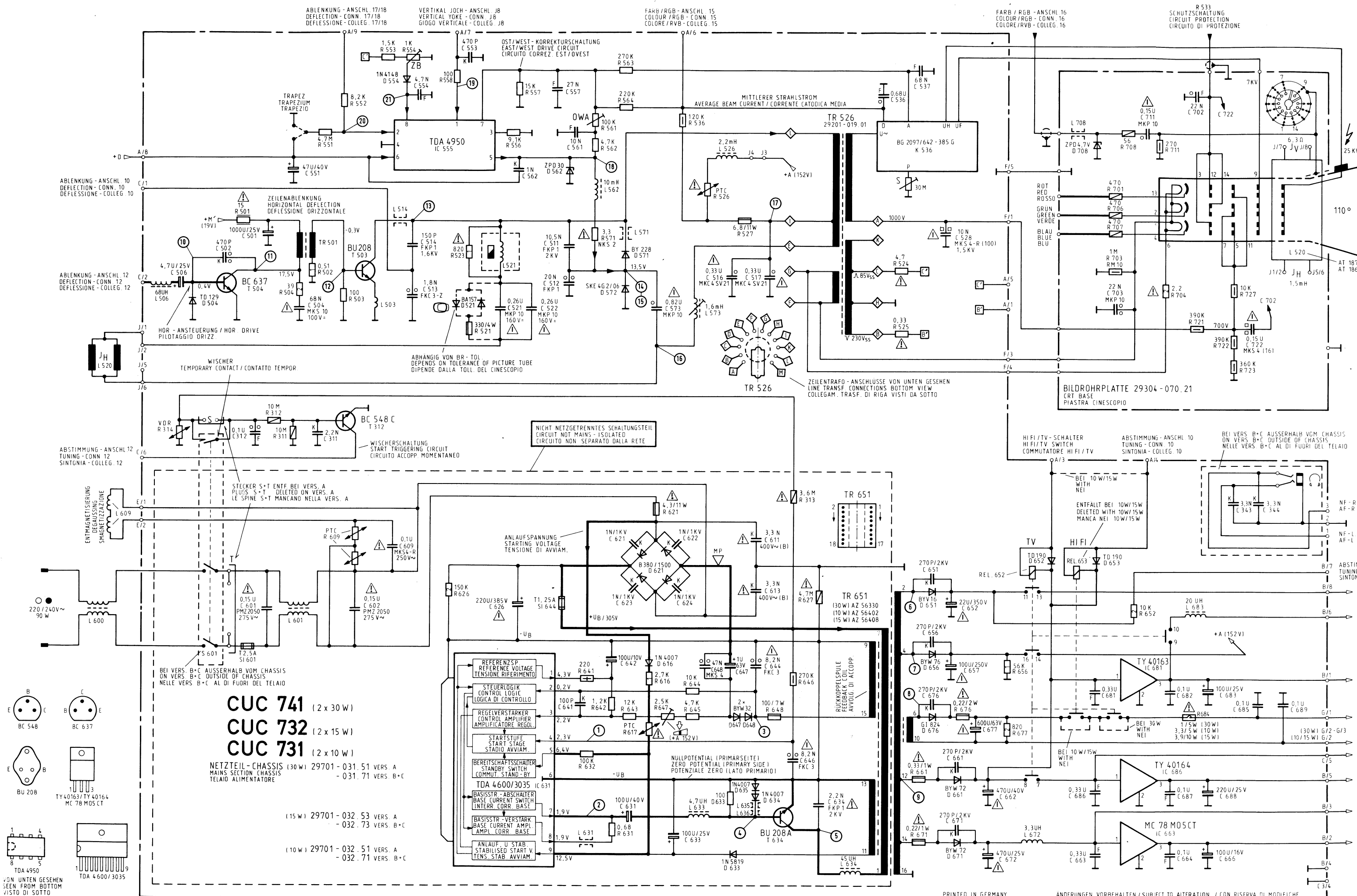
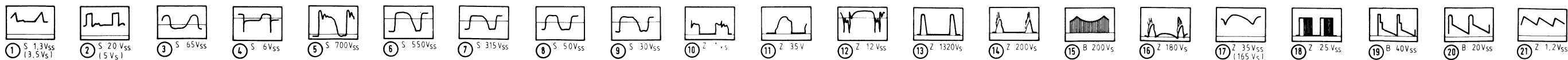
T2669	(9.25072-01)
T2269	(9.25073-01)
STEREO 66 1602-	(9.25068-01)
STEREO 56-1602	(9.25070-01)
STEREO 66-1603	(9.25077-01)
STEREO 66-160	(9.25011-01)
STEREO 66-1601	(9.25043-01)
STEREO 56-160	(9.25012-01)
STEREO 56-1601	(9.25044-01)
WIEN 160	(9.25061-01)
SALZBURG 160	(9.25062-01)
HOHENSTEIN 66-166	(9.25041-01)
STEREO 66-180 HIFI	(9.25010-01)
S.C. C8880/VC	(9.24928-01)
S.C. C8880/TV HIFI A	(9.24990-01)
STEREO 66-160 P/S-FR	(9.25011-13)
STEREO 56-160 P/S-FR	(9.25012-13)

VERS. B: GERÄTE MIT WÜRFEL GEHÄUSE U. SCHUBLADENBED.
SETS WITH CUBE CABINET AND DRAWER CONTROL PANEL.
APPAR. CON MOBILE A CUBO E CARRELLO PORTAELEM.
DI COMANDO.

S.C. C8890	(9.24921-01)
S.C. C8690 GB	(9.24977-63)

VERS. C: GERÄTE MIT WÜRFEL GEHÄUSE
SETS WITH CUBE CABINET
APPAR. CON MOBILE A CUBO

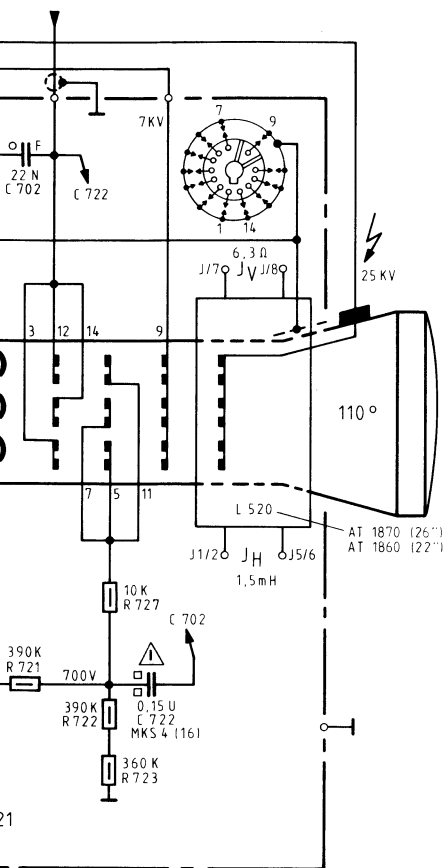
STEREO 66-165	(9.25018-01)
STEREO 56-165	(9.25042-01)



20 B 20V_{SS}

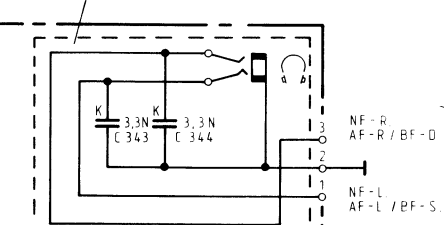
21 Z 1.2V_{SS}

R 533
TZSCHALTUNG
IT PROTECTION
ITO DI PROTEZIONE

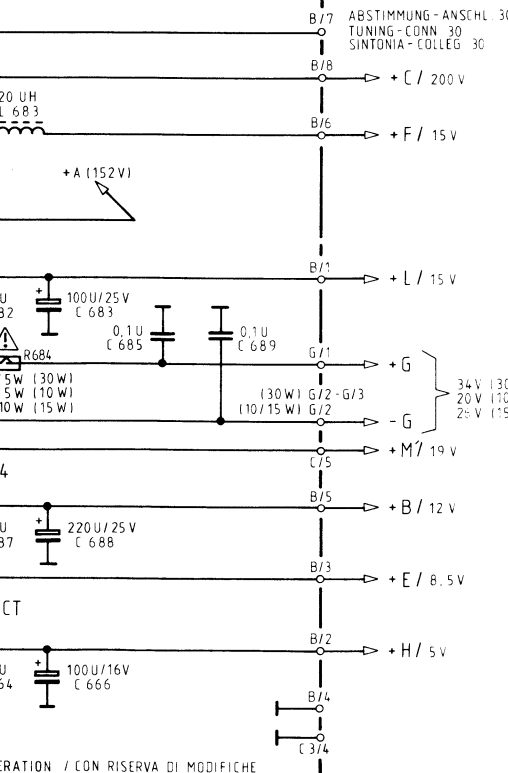


A 56-540 X (22")
A 66-540 X (26")

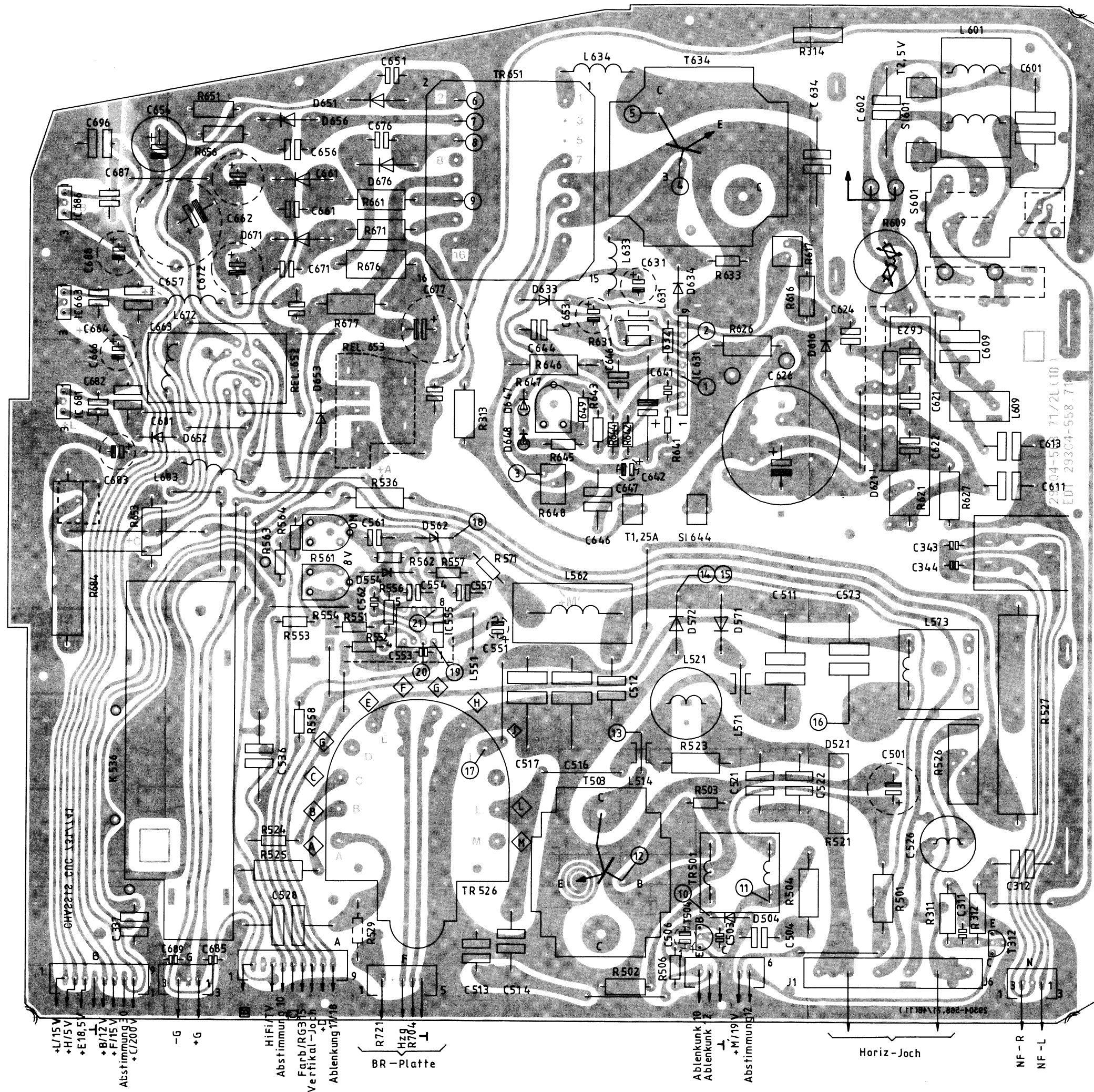
BEI VERS. B+C AUSSERHAIB VOM CHASSIS
ON VERS. B+C OUTSIDE OF CHASSIS
NELLE VERS. B+C AL DI FUORI DEL TELAIO



BUCHSENF. - STECKER H.
LS. SOCKETS BOARD PLUG H.
SPINA H. PIASTRA PRESE ALTOP.



CON RISERVA DI MODIFICHE



29304-558-71/2L(10)
EDT 29304-558-71

GRUNDIG

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APPAR. CON MOBILE SIMMETRICO

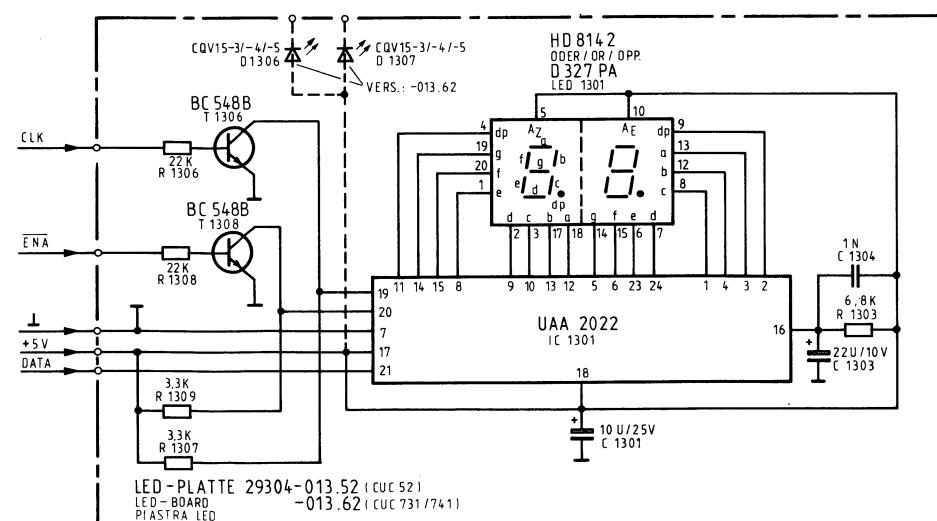
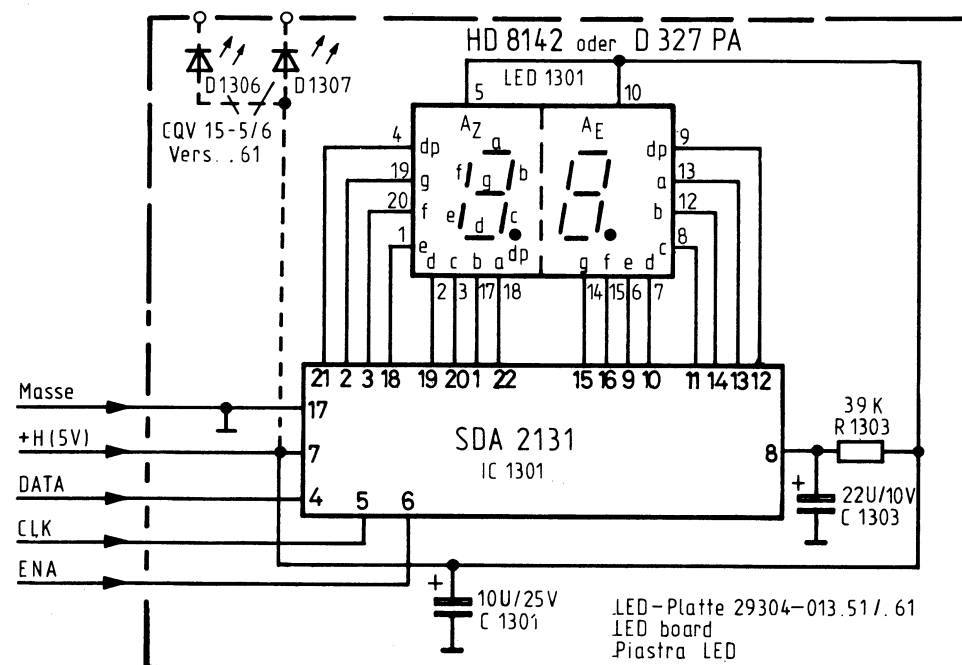
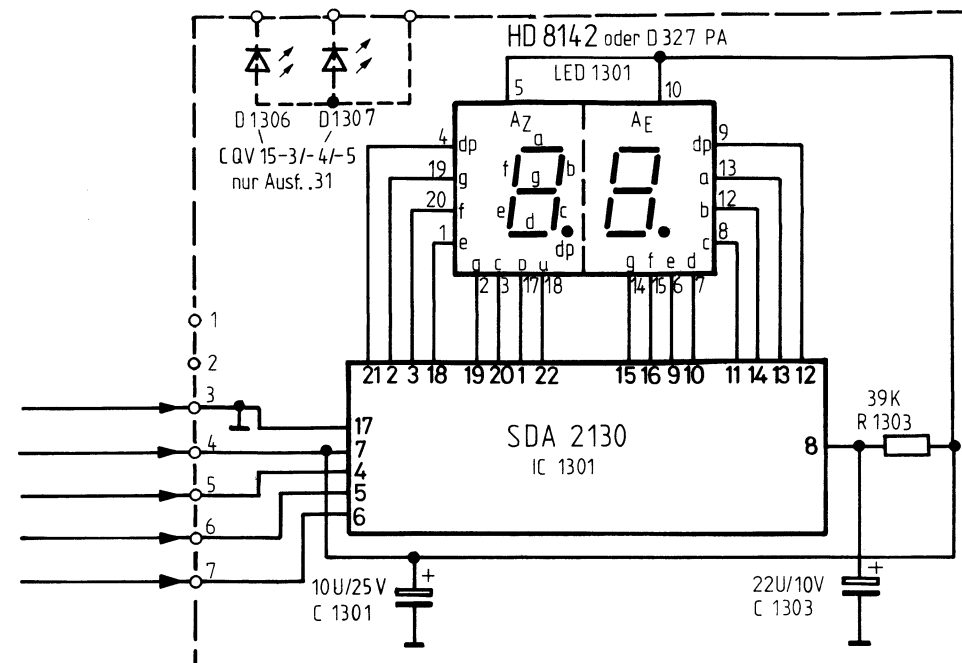
T 2669	(9.25072-01)
T 2269	(9.25073-01)
STEREO 66 1602-	(9.25068-01)
STEREO 56-1602	(9.25070-01)
STEREO 66-1603	(9.25077-01)
STEREO 66-160	(9.25011-01)
STEREO 66-1601	(9.25043-01)
STEREO 56-160	(9.25012-01)
STEREO 56-1601	(9.25044-01)
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APPAR. CON MOBILE A CUBO E CARRELLO PORTAELEM.
DI COMANDO.

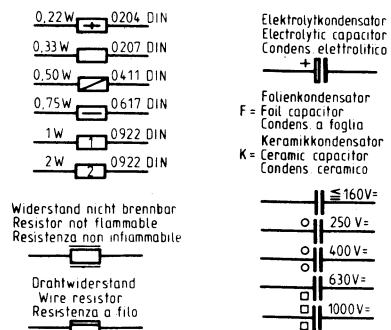
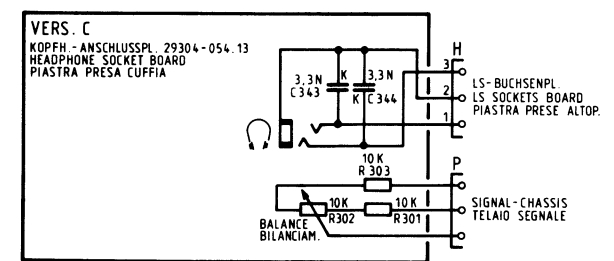
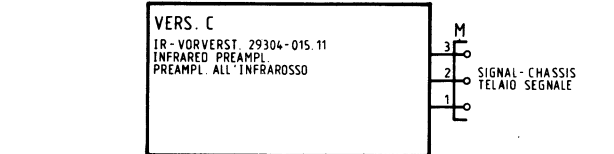
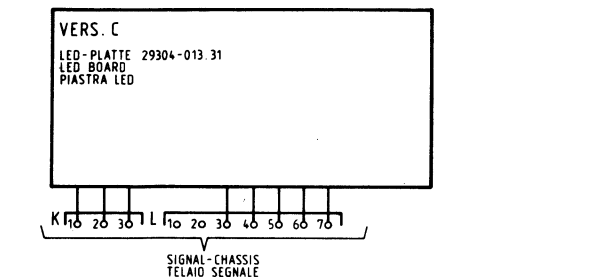
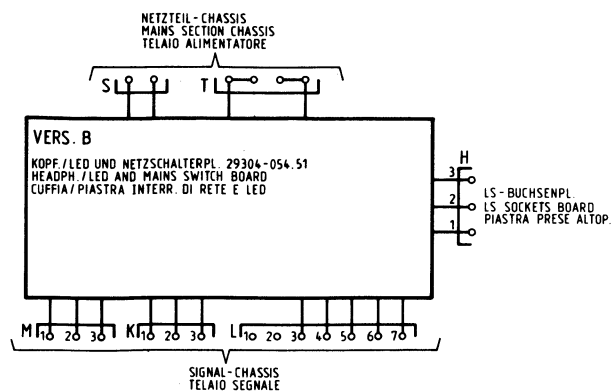
S.C. C 8890	(9.24921-01)
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SETS WITH CUBE CABINET
APPAR. CON MOBILE A CUBO

STEREO 66-165	(9.25018-01)
STEREO 56-165	(9.25042-01)



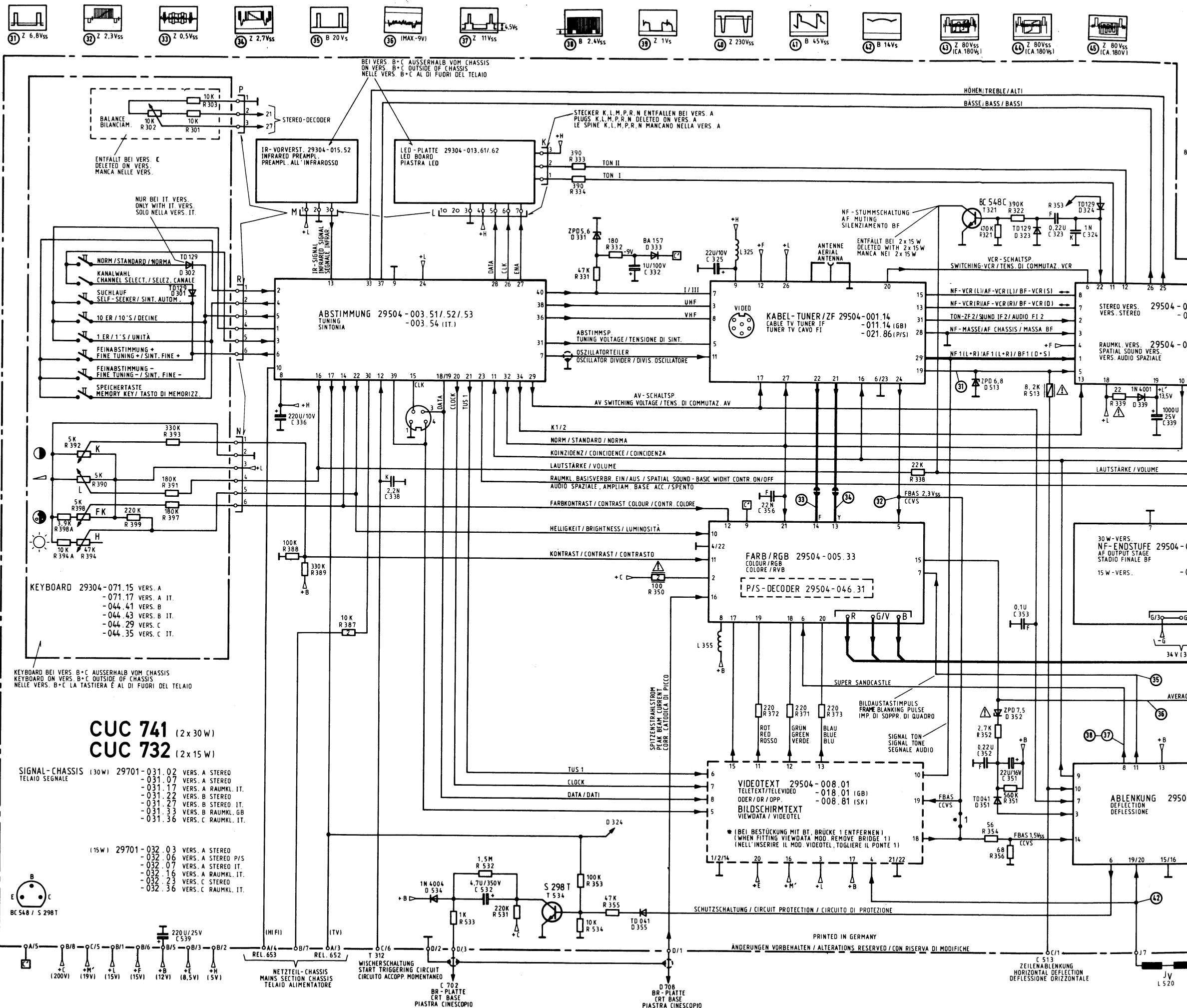
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
When replacing the plug-in board, no alignment is necessary
No è necessaria nessuna taratura di adattamento dopo la
sostituzione di una scheda ad innesto

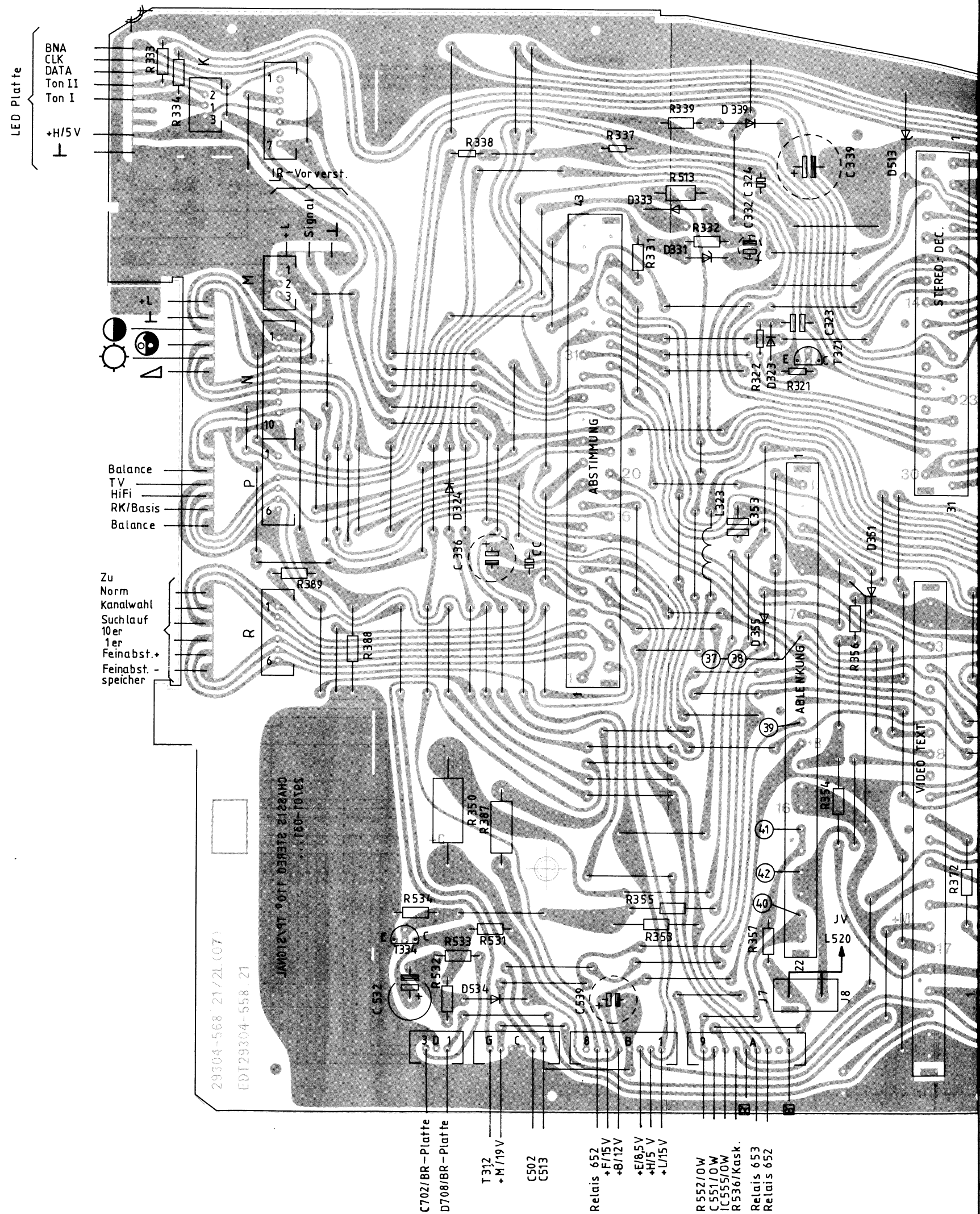
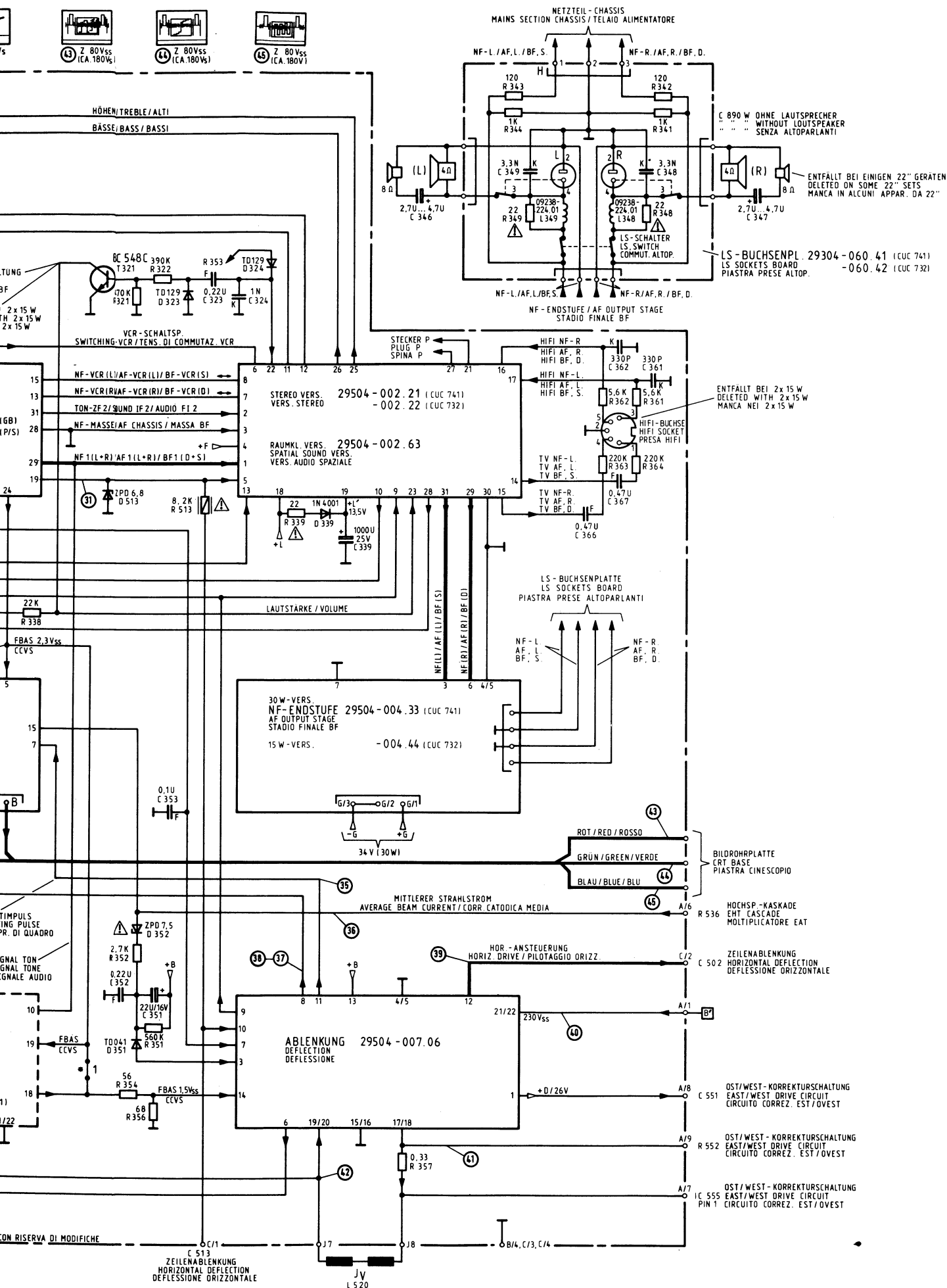


Bei Eingriffen Schutzmaßnahmen
für MOS-Bauteile beachten!

When handling MOS-circuits,
always observe the MOS protection measures!

Adoperando componenti o circuiti MOS,
osservarne le corrispondenti misure di protezione!





PRECHER
TSPEAKER
ARLANI

ENTFÄLLT BEI EINIGEN 22" GERÄTEN
DELETED ON SOME 22" SETS
MANCA IN ALCUNI APPAR. DA 22"

29304-060.41 (CUC 741)
-060.42 (CUC 732)

ON
INIALE

RSCHALTUNG
RCUIT
T/OVEST

URSCHALTUNG
RCUIT
ST/OVEST

URSCHALTUNG
RCUIT
ST/OVEST

LED Platte

BNA
CLK
DATA
Ton II
Ton I
+H/5V

Balance
TV
HiFi
RK/Basis
Balance

Zu
Norm
Kanalwahl
Suchlauf
10er
1er
Feinabst.+
Feinabst.-
speicher

29304-568.21/2L(07)

EDT29304-558.21

JAM12VAT 90FT 03E312 2102AH3
180-10105

C702/BR-Platte
D708/BR-Platte

T312
+M/19V

C502
C513

Relais 652
+F/15V
+B/12V
+E/85V
+H/5V
+L/15V

R552/OW
C551/OW
C555/OW
R536/Kask.

Relais 653
Relais 652

VIDEO TEXT

STEREO - DEC.

EN-ENDDSTURE

2 x trennen
bei Transcoder

110 10A15.000-1000S

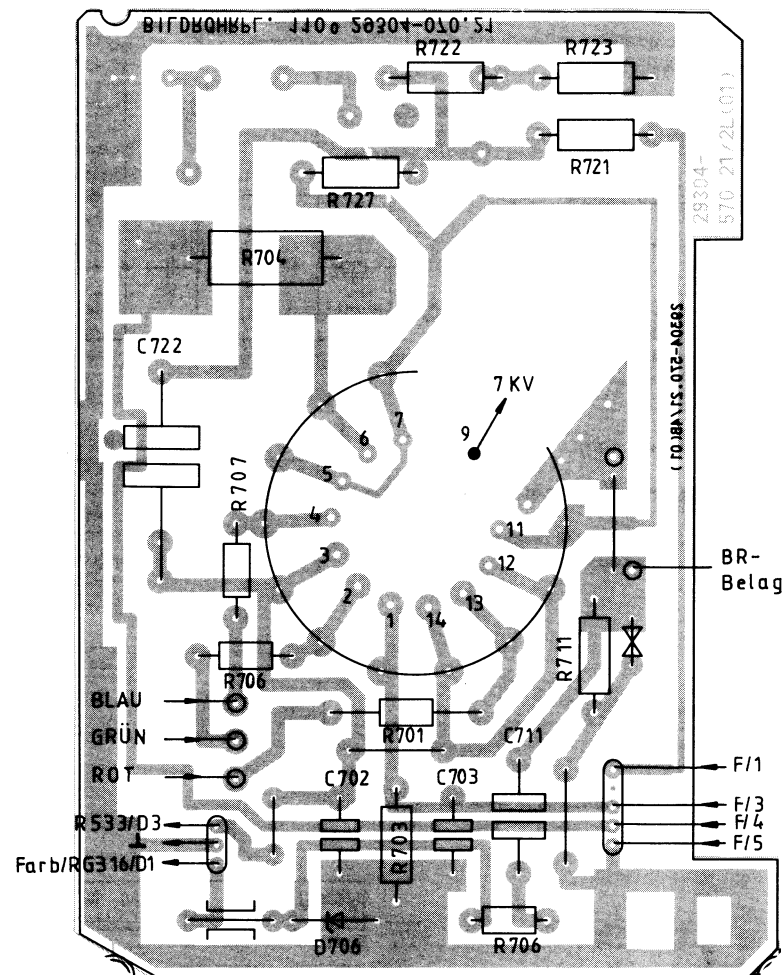
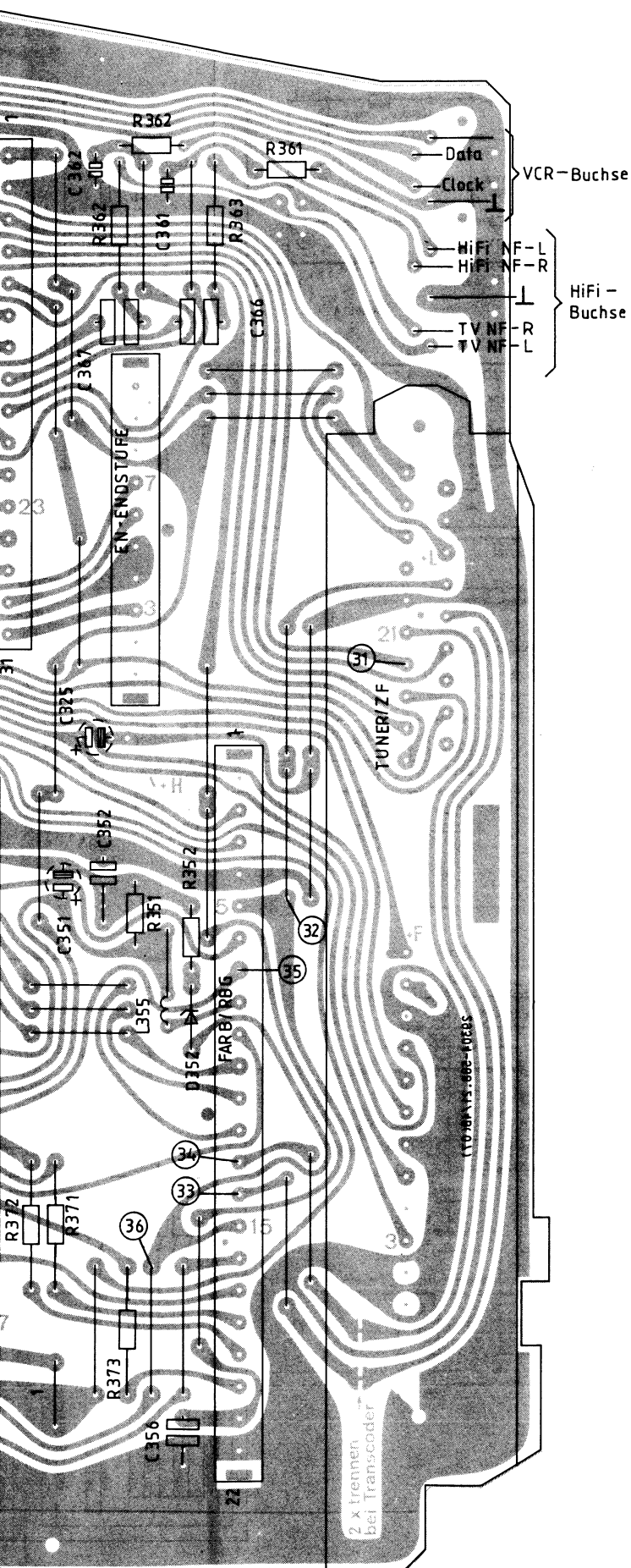
VCR-Buchse
Data
Clock
HiFi NF-L
HiFi NF-R
TV NF-R
TV NF-L

Farb/RG316/D1

SFH 20
www.70r
BPW 41
D 1201
9651-
089 961
100m H
L1202

29304-015.01/0

Kein Anpassung
When replacing
No è necessario
sostituzione di



Servicehinweise für Schalt-
netzteil: Gerät mit Netztrenn-
transformator betreiben. (n. b.
Schaltnetzteil liegt an Netzpo-
tential. Bei fehlender Sekundär-
spannung oder Takten des Netz-
teiles Sekundärstromkreise ein-
zeln unterbrechen und Funktion
überprüfen.
Suchschema bei Nichtschwingen
des Sperrwandlers.

- Anlaufspannung (Pin 9/5)
< 8 V Anlauf über Di 616
u. R 616.
 - Referenzspannung (Pin 1)
ca. 6 V
 - Startimpuls (Pin 4) ①
 - Basisstromsteuerung
(Pin 7) ②
- C 626 muß vor Wechsel des IC
631 entladen sein! Netzteilregel-
bereich 160 bis 260 V~

Service hints for switch-mode
power supply: operate set with
mains-isolating transformer (n. b.
the primary side of the SM power
supply is normally not isolated, if
there is no secondary voltage or
the power supply pulsates, dis-
connect the secondary circuits
individually and check operation.
Fault finding scheme if blocking
function prevents oscillation:

- Starting voltage (Pin 9/5)
< 8 V, starting via Di 616
and R 616
 - Reference voltage (Pin 1)
approx. 6 V
 - Start pulse (Pin 4) ①
 - Base current drive (Pin 7)
②
- Before replacement of IC 631, C
626 must be discharged. Power
supply range 160 to 260 V AC.

Avvertenze di Servizio dell'al-
imentatore: Alimentare l'apparec-
chio con un trasformatore sepa-
ratore. Il lato primario dell'alimen-
tatore è a potenziale di rete. Se
viene a mancare la tensione del
secondario o in caso di interven-
to ritmico dell'alimentatore, inter-
rompere uno alla volta i circuiti
dell'alimentatore e controllarne la
funzione. Se il trasduttore di in-
terdizione non viene eccitato, ri-
cercare il guasto secondo lo
schema seguente:

- Tensione di avviamento
(pin 9/5) < 8 V. Avviamen-
to tramite Di 616 e R 616.
 - Tensione di riferimento
(pin 1) ca. 6 V.
 - Impulso di avviamento
(pin 4) ①
 - Pilotaggio della corrente di
base (pin 7) ②
- Il C 626 deve essere scarico pri-
ma di cambiare l'IC 631! Campo
di regolazione dell'alimentatore:
160 a 260 V~

Hinweis für den Fachhandel!

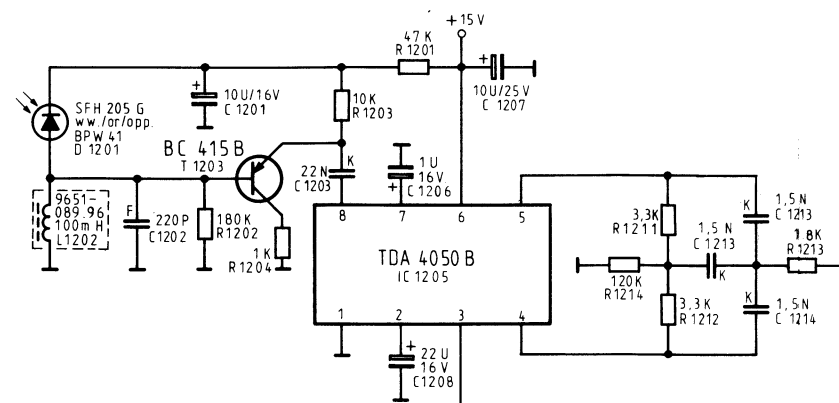
Bei Ausfall von Steckkarten empfehlen wir grundsätzlich unseren Austauschdienst. Auf Mikroplanfilm sind hierfür aber auch Serviceanleitungen erhältlich.

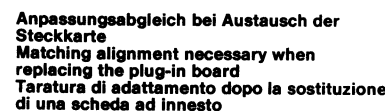
Information for dealers!

If a plug-in board becomes defective, we recommend you replace it. However, if you wish to repair a board separate service instructions are available for the plug-in boards.

Avvertenza per i rivenditori specializzati!

In caso di schede ad innesto difettose consigliamo in primo luogo di rivolgersi al nostro Servizio permuta. Comunque, per riparazioni di propria iniziativa, sono a disposizione microfilm corredati di istruzioni di servizio.





Oszillogramme gemessen mit Farbbalkentestbild.
Oscillograms measured with colour bar test picture.
Gli oscillogr. sono misurati con monoscopio a barre colore.

DC voltages measured at nominal brightness, nominal colour contrast and max. contrast
Tensioni continue misurate col lum. nominale, contr. colore nominale e contr. al massimo

- 1) Weißabgleich
– FuBK-Testbild einspeisen
–  min,  nom,  max einstellen
– Regler V_R und V_B so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.
- 2) Sperrpunktgleich
Eine manuelle Einstellung ist nicht möglich, da die Steckkarte eine automatische Dunkelstromregelung besitzt.
Kontrolle des Sperrpunkts (Oszilloskop erforderlich).
– FuBK-Testbild einspeisen
– Weißabgleich kontrollieren
–  min,  nom,  max einstellen
– Tastkopf an den Kollektoren der Transistoren T 2547, T 2567, T 2587 anhängen und die Schwarzwerte der 8stufigen Grautreppe notieren.
– Tastkopf an den Kollektor desjenigen Transistors einhängen, dessen Schwarzwert den höchsten Wert hat und mit G2-Regler auf 165 V einstellen.
Richtwerte für die G2-Spannung:
– bei Geräten $\leq 20''$: ca. 550 V
– bei Geräten $> 20''$: ca. 650 V
- 3) Einstellungen im Farbkanal
– FuBK-Testbild einspeisen
–  nom,  nom,  nom einstellen
– Am IC TDA 3562 A Pin 1 mit Pin 5 und Pin 24 mit Pin 25 kurzschließen.
– Mit Trimmer 2523 die durchlaufenden Farbbalken zum Stehen bringen, Kurzschlußbrücken entfernen.
– Tastkopf am Pin 17 des IC TDA 3562 A einhängen.
Mit Regler BP und Spule LZ die Doppelbilder des -(B-y)-Signals zur Deckung bringen.

- 1) White level adjustment
 - Inject colour bar test pattern
 - Set  to minimum, nominal  ,  to maximum
 - Adjust V_R and V_G controls so that no colouration is visible in the grey values
- 2) Cut-off point adjustment

A manual adjustment is not possible as the plug-in circuit board is provided with an automatic dark current control.

Checking the cut-off point (oscilloscope required).

 - Inject colour bar test pattern
 - Check white level adjustment
 - Set  to minimum, nominal  ,  to minimum.
 - Attach probe to the collectors of the transistors T 2547, T 2567, T 2587 and make a note of the black levels of the 8-stage grey staircase
 - Attach probe to the collector of the transistor which has the highest black level and adjust to 165 V with G2 control.

Standard values for the G2 voltage:

 - for sets $\leq 20''$: approx. 550 V
 - for sets $> 20''$: approx. 650 V
- 3) Colour oscillator and PAL adjustments
 - Inject colour bar test pattern
 - Adjust to  ,  ,  suit view conditions.
 - On the IC TDA 3562 A, short circuit pin 1 with pin 5 and pin 24 with 25.
 - With trimmer 2523 adjust the until colours are correct. Remove short circuits.
 - Attach probe to pin 17 of the IC TDA 3562 A.
 - With control BP and coil LZ, adjust the double images of the $-(B-Y)$ signal to coincide.

- 1) Taratura del bianco
 - Applicare un monoscopio FuBK
 - Regolare ☉ al minimo, ☼ sul valore nominale ed ☿ al massimo.
 - Con i regolatori V_R e V_B eliminare eventuali macchie di colore visibili su tutta la scala dei grigi.
- 2) Taratura del punto di blocco

Una regolazione manuale non è possibile, poiché questa scheda ad innesto incorpora una regolazione automatica della corrente d'oscurità.

Controllo del punto di blocco (è necessario un oscilloscopio):

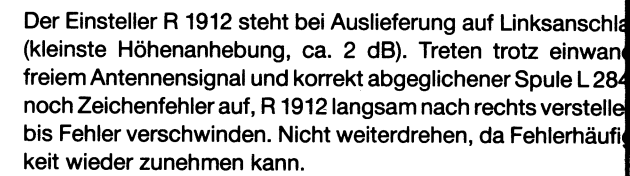
 - Applicare un monoscopio FuBK.
 - Controllare la taratura del bianco.
 - Regolare ☉ al minimo, ☼ sul valore nominale ed ☿ al massimo.
 - Collegare la sonda dell'oscilloscopio ai collettori dei transistori T2547, T2567 e T2587 ed annotare i valori del nero della scala dei grigi.
 - Collegare la sonda dell'oscilloscopio al collettore del transistor che ha il maggior valore del nero e regolarlo su 165 V con il regolatore G2.

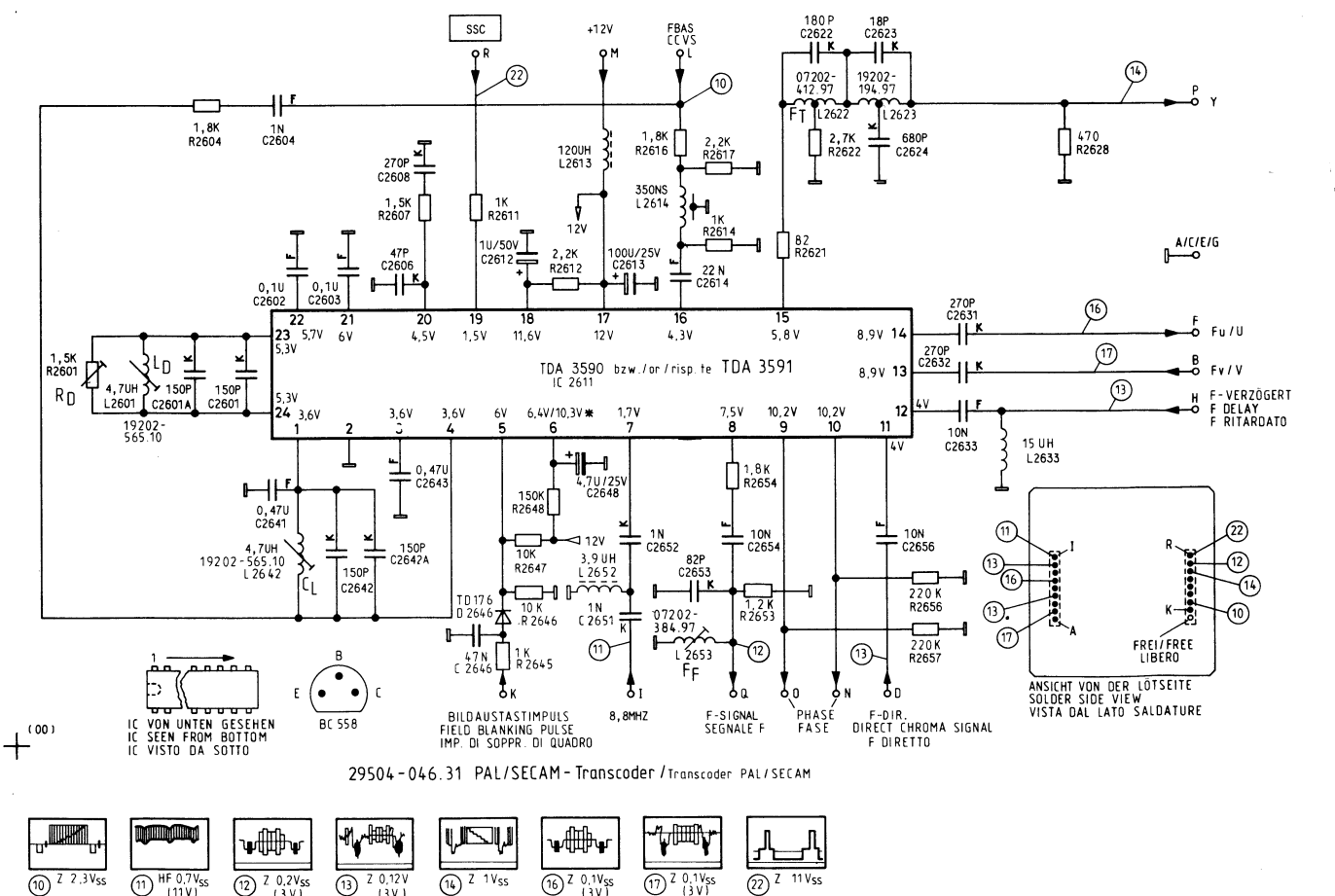
Valori orientativi per la tensione G2:

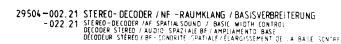
 - per apparecchi $\leq 20''$: ca. 550 V
 - per apparecchi $> 20''$: ca. 650 V
- 3) Regolazioni dell'oscillatore colore e PAL
 - Applicare un monoscopio FuBK.
 - Regolare ☉, ☼ ed ☿ sul valore nominale.
 - Cortocircuitare i terminali 1 e 5 ed i terminali 24 e 25 dell'IC TDA 3562 A.
 - Fermare le barre colorate scorrevoli con il trimmer 2523 e togliere i cortocircuiti.
 - Collegare la sonda dell'oscilloscopio al terminal 17 dell'IC TDA 3562 A.
 - Con il regolatore BP e la bobina LZ portare a copertura le immagini doppie del segnale -(B-V).

NF-
AF
Sta

SIGNAL - CHASSIS
TELAIO SEGNALE





[illegible]

29504 - 002.22 STEREO-DECODER / NF / BASISVERBREITERUNG

BR-SCHUTZ
CRT PROTECTION
PROTEZ. CINESCOPIO

HOR. AUSGANG
HORIZ. OUTPUT
USCITA ORIZZ.

KOINZIDENZ
COINCIDENZA
COINCIDENZA

HOR. SCHUTZ
HOR. PROTECTION
PROTEZ. ORIZZ.

BILDAUSTAIMPULS
PICTURE BLANKING PULSE
IMP. DI SOPPR.DI QUADRO

V 230VSS

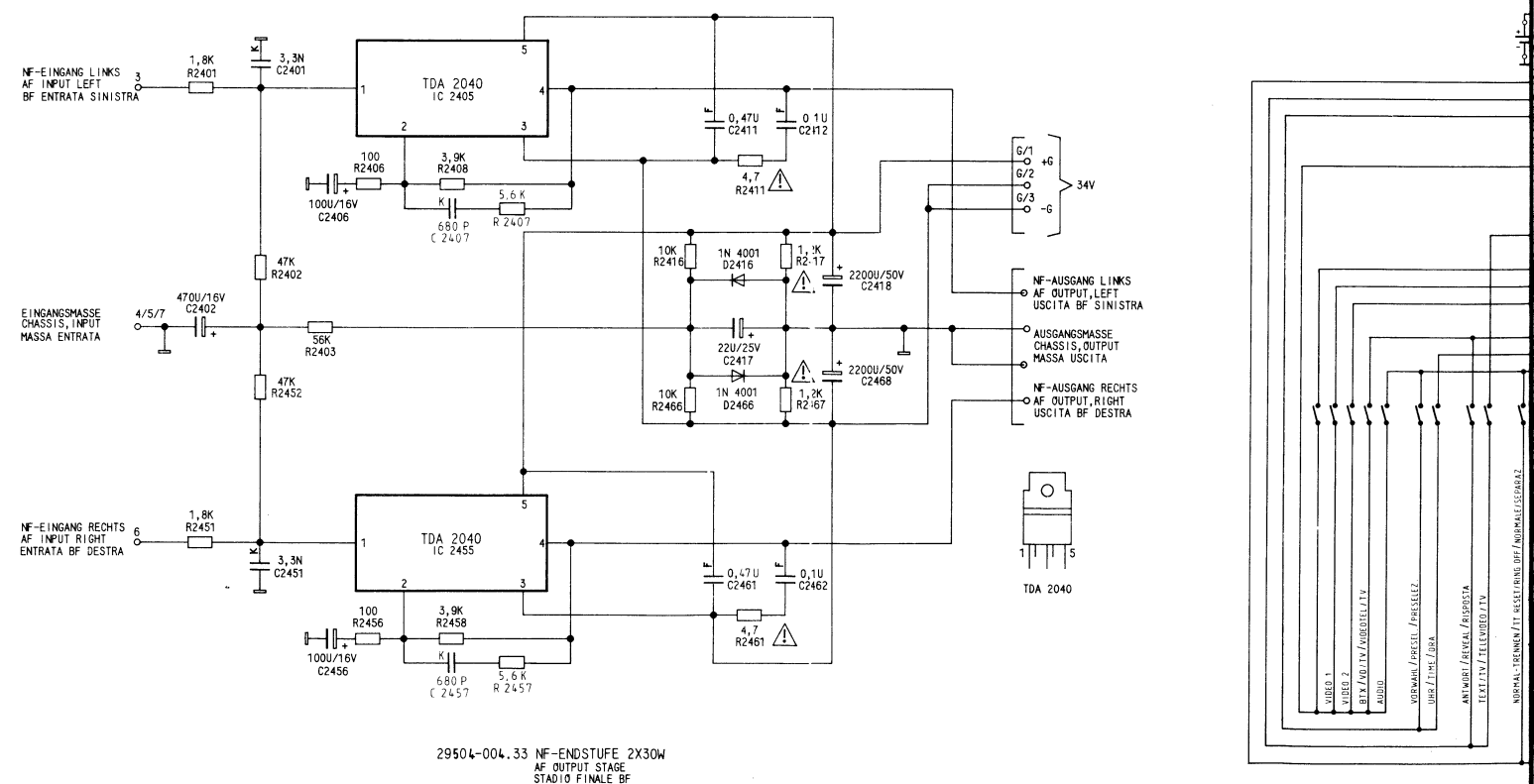
TDA 2595
IC2705

(0,9V-AV)

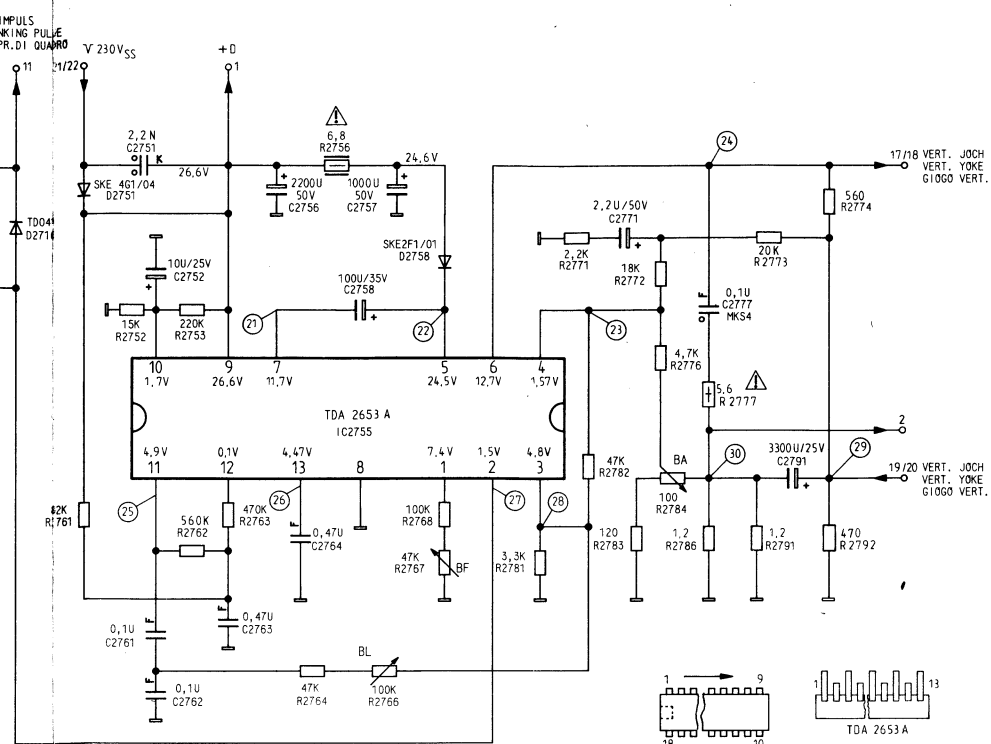
TDA 2653 A
IC2755

1C'S VON UNTEN GEGEHEN
IC'S SEEN FROM BOTTOM
IC'S VISTI DA SOTTO

29504 · 007.05 ABLENKUNG 110° / DEFLECTION / DEFLESSIONE
· 007.06

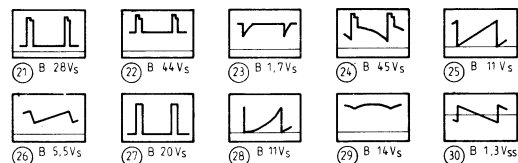


29504-004.33 NF-ENDSTUFE 2X30W
AF OUTPUT STAGE
STADIO FINALE BF



29504-007.05 ABLENKUNG 110° / DEFLECTION / DEFLESSIONE
007.06

15/16



Anpassungsabgleich bei Austausch der Steckkarte
Matching alignment necessary when replacing the plug-in board
Taratura di adattamento dopo la sostituzione di una scheda ad innesto

kurzschließen.
Zeilenoszillator auf Sollfrequenz einstellen. Kurzschluß entfernen.

Short circuit test point marked MP. Adjust control marked Z for stationary picture (as near as possible). Remove short circuit.

Cortocircuitare i punti MP. Regolare l'oscillatore di riga sulla frequenza nominale. Allontanare il cortocircuito.

Bildhöhe so einstellen, daß der Testbildkreis rund ist.

Adjust the field height so that the test card circle is round.

La regolazione dell'altezza del quadro viene effettuata in modo da rendere rotondo il cerchio del monoscopia.

Schirmbild auf gleichmäßige Linearität bringen.

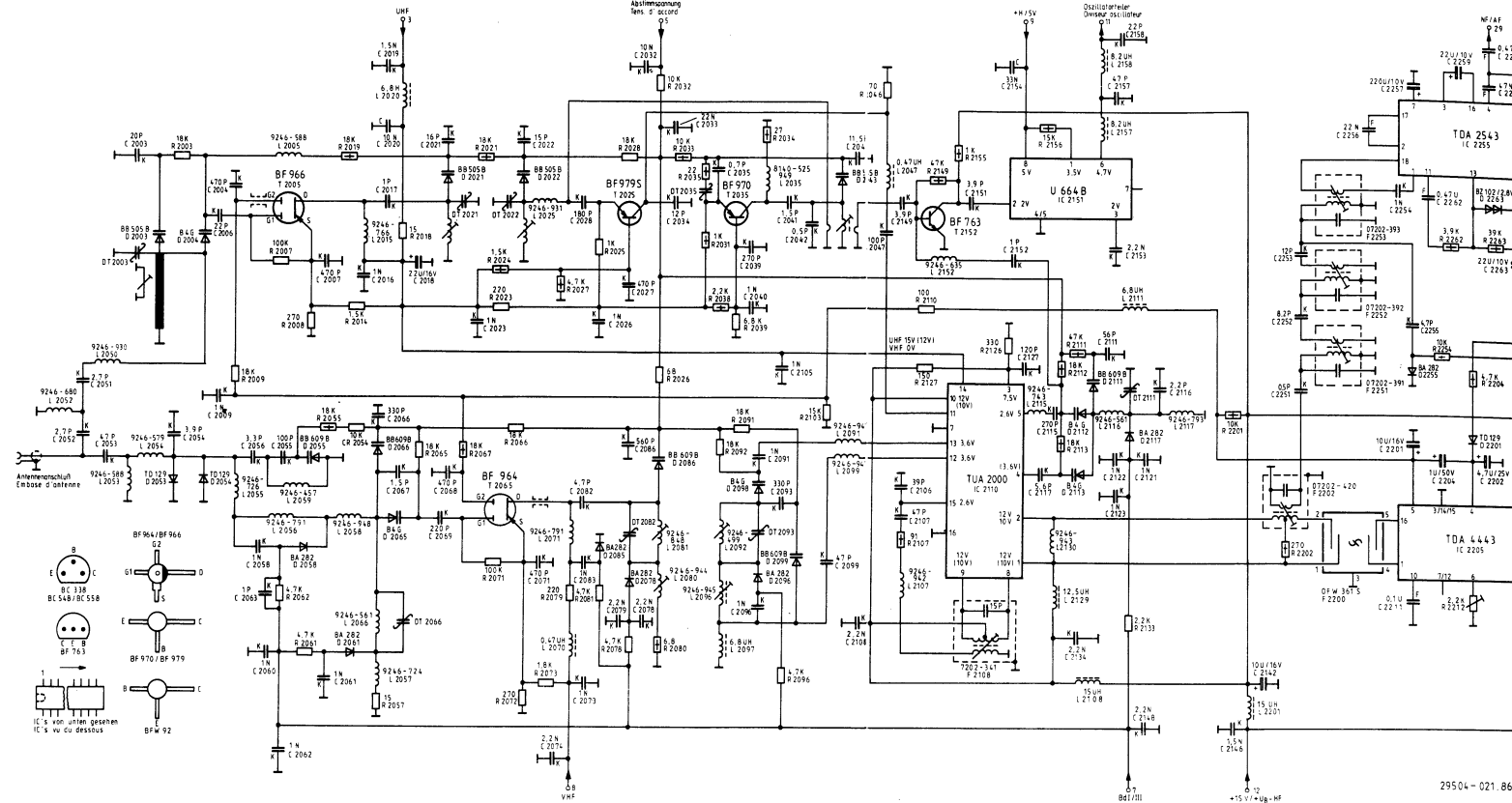
Adjust for overall field linearity.

Portare l'immagine in linearità simmetila.

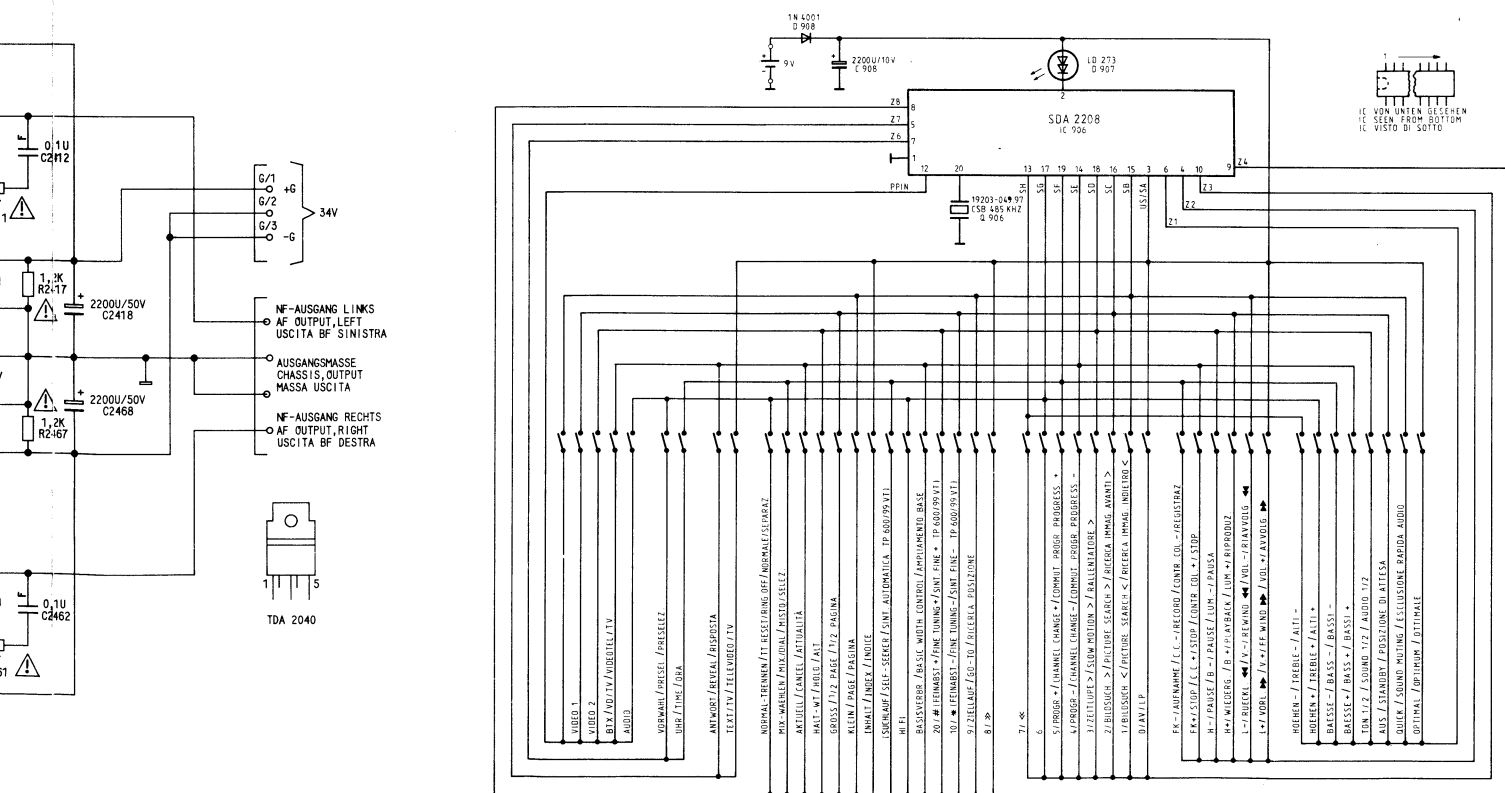
Regler BF verdrehen, bis das Bild nach unten durchzulaufen beginnt, dann Regler BF so einstellen, daß das Bild sichtbar nach oben einrastet.

Adjust control BF so that the picture starts to roll downwards and then adjust for a stationary picture.

Regolare il regolatore BF finché il quadro comincia a spostarsi verso il basso e poi regolarlo fino a che il quadro effettua la sua ultima variazione da sotto a sopra.

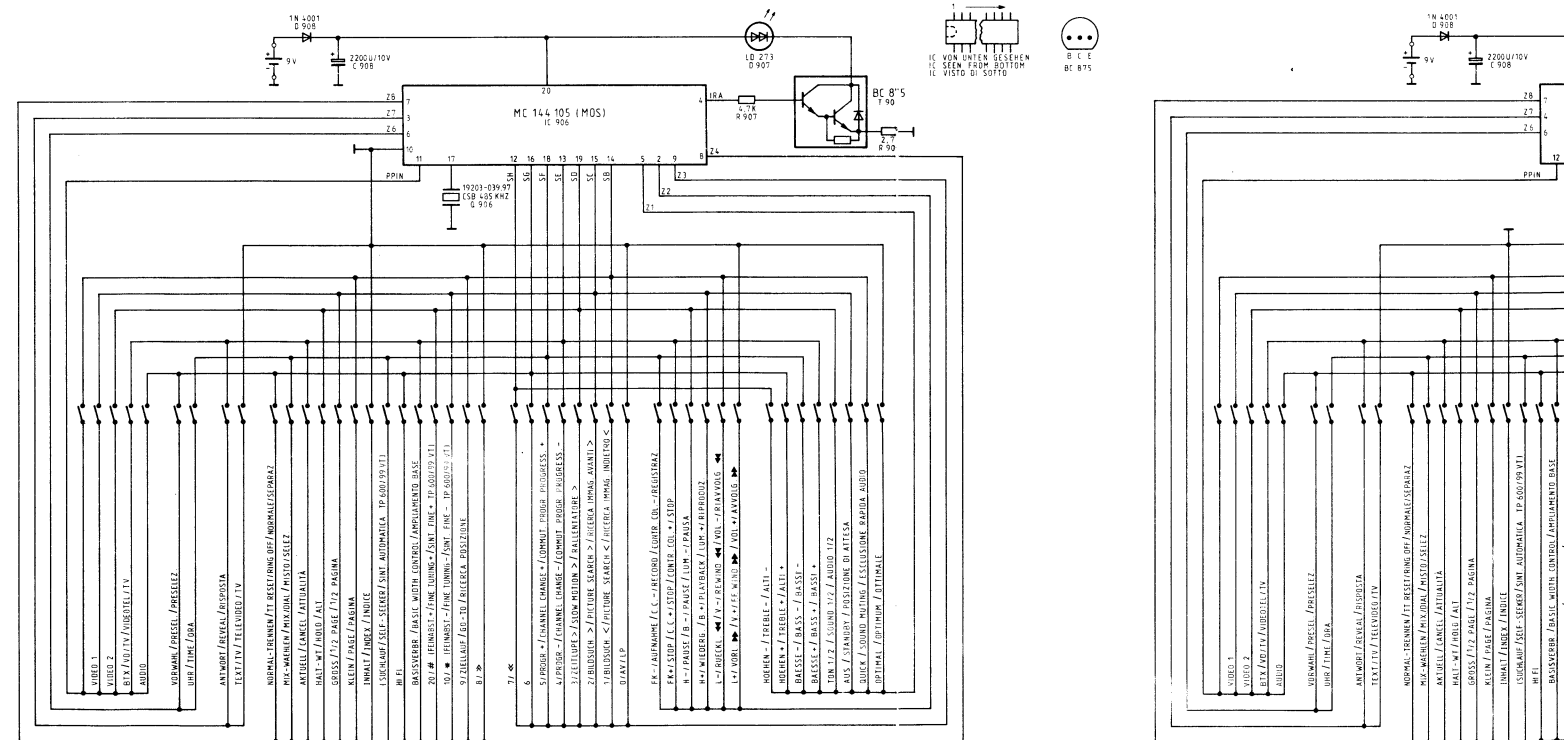


29504-021.06



29304-064.11 KEYBOARD

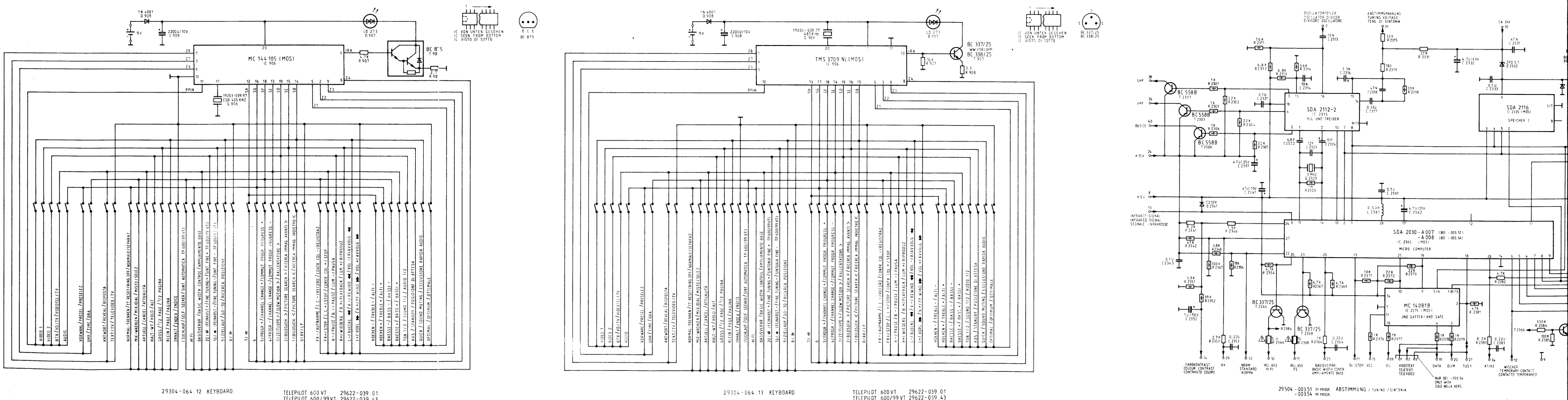
TELEPILOT 600 VT 29622-039.01
TELEPILOT 600/99 VT 29622-039.43

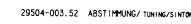


29304-064.12 KEYBOARD

TELEPILOT 600 VT 29622-039.01
TELEPILOT 600/99 VT 29622-039.43

29304-064.13





Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
When replacing the plug-in board, no alignment is necessary
No è necessaria nessuna taratura di adattamento dopo la
sostituzione di una scheda ad innesto